

FILE COPY

August 15, 2005

Mr. Craig Hunt Water Resources Control Engineer State Regional Water Quality Control Board North Coast Region 5550 Skyland Boulevard, Suite A Santa Rosa, CA 95403

Re: Second Quarter 2005 Groundwater Monitoring Report

Retech Systems LLC, 100 Henry Station Road, Ukiah, California 95482 NCRWQCB Case No. 1NMC346 Clearwater Group Project No. AB024D

Dear Mr. Hunt,

The Clearwater Group (Clearwater), on behalf of Retech Systems LLC, is pleased to present this Second Quarter 2005 Groundwater Monitoring Report for work recently completed at 100 Henry Station Road, Ukiah, Mendocino County, California (Figure 1) for your review, comments and direction. The work chronicled in this report follows the recommendations set forth in Clearwater's November 19, 2002 Site Investigation Report – Results of Well Installation and Continued Investigation, and approved by the North Coast Regional Water Quality Control Board (NCRWQCB) in correspondence dated February 4, 2003.

### Site Description

The site is located approximately 5 miles south of the City of Ukiah in a light industrial area between the Redwood Highway (State Highway 101) and tracks of the Northwestern Pacific Rail Road (Figure 1). The site is bordered by vineyards and sparse residential neighborhoods. An unnamed creek runs north to south through the site approximately 40 feet west of the former generator warehouse. There are several domestic water wells within a one mile radius of the site.



### Background

The former 10,000-gallon steel diesel fuel above ground storage tank (AST), which was set in a concrete secondary containment area, was utilized to run two large generators underlain by sumps located in a warehouse building. The sumps were constructed of concrete and were placed from 1.5 to 5 feet deep. Approximately 70 feet of underground piping connected the AST to the generators. No underground storage tanks are reported to be presently located at the facility.

During March 1998, Apex Envirotech, Inc. (Apex) of Fair Oaks, California, conducted a subsurface investigation in the vicinity of the generator warehouse to assess if groundwater conditions were impacted by past activities at the site. Results of this investigation were detailed in a report prepared by Apex, dated April 2, 1998.

During June 1998, Artesian Environmental (Artesian), now Clearwater Group (Clearwater) of Point Richmond California, drilled two Geoprobe borings (SS-4 and SS-5) to approximately 16 feet below ground surface (bgs). The borings were located along the underground fuel line between the diesel AST and the former generator building. Artesian also installed and sampled three groundwater monitoring wells (MW-1, MW-2, and MW-3) to approximately 15 feet bgs in the vicinity of the former generator building. Figure 2 shows the groundwater monitoring well locations. Results of this investigation are detailed in the *Subsurface Investigation Report* dated August 6, 1998 prepared by Artesian and submitted to the NCRWQCB and the Mendocino County Department of Environmental Health (MCDEH).

On September 13, 1999, Artesian exposed the former fuel line from the former AST secondary containment to the former generator building. The fuel line contained approximately five gallons of diesel which was pumped from the fuel line prior to removal. The fuel line was situated approximately 12 to 14 inches beneath a broken asphalt surface and set in a thin layer of trench sand mixed with gravel. In the two weeks following the removal of the fuel line, Artesian excavated contaminated soil from around the fuel line. A total of approximately 1,520 tons of soil were removed and transported off-site for disposal. In addition to the contaminated soil removed, approximately 13,500 gallons of impacted groundwater were



pumped from the excavation area. During the excavation, MW-2 was destroyed and an additional well, MW-4, was installed between the southern portion of the excavation and the stream. Results of soil remediation and well installation efforts were presented in Artesian's Soil and Groundwater Remediation and Monitoring Well Installation Report dated February 29, 2000.

During quarterly monitoring activities on site in January, April and December 1999, and May 2000, Artesian collected samples from the unnamed stream adjacent to the property both upstream and down stream of the excavated area. No petroleum hydrocarbons have ever been detected in the adjacent stream during sampling.

Following the installation of MW-4, Artesian performed quarterly groundwater monitoring on the site in May, August and November of 2000. During all quarterly monitoring events in 2000, total petroleum hydrocarbons as diesel (TPHd) was detected once in MW-3 at a concentration of 59 micrograms per liter ( $\mu$ g/L), and total petroleum hydrocarbons as gasoline (TPHg) was detected once in MW-1 at 130  $\mu$ g/L, but no other contaminants of concern were detected in any of the three on-site wells (MW-1, MW-3 and MW-4). Observed groundwater flow direction in the three onsite wells changed dramatically during the three quarterly monitoring events in 2000 from westerly in May, to southerly in August and to easterly in November. Observed groundwater flow direction prior to the destruction of MW-2 was south-southwesterly toward the unnamed creek, as would be expected.

In an August 22, 2001 letter, the NCRWQCB requested that Retech submit a workplan and conduct additional site investigation to assess the possible presence of free product within the overexcavated area where the original fuel line leak occurred by replacing MW-2 with a new well.

In November 2001, Clearwater Group was retained by Retech Systems LLC to complete the additional Site Investigation of the property to comply with NCRWQCB's requests, in their August 22, 2001 letter. In accordance with Clearwater Group's *Workplan*, dated November 13, 2001, Clearwater has completed the following:

 One 4-inch diameter groundwater monitoring well, MW-5, was installed on October 17, 2002 within the excavation near the former location of MW-2 to determine the possible presence of free petroleum product within the overexcavated area.



- Two 2-inch diameter groundwater monitoring wells, MW-6 and MW-7 were also installed on October 17, 2002 upgradient from the former excavation to more accurately determine groundwater flow direction across the excavation. Table 1 summarizes the well construction data.
- Groundwater monitoring and reporting first and second quarter 2003.
- In accordance with Clearwater's *Groundwater Sampling Protocols* (Appendix A), water samples from all the six project wells were collected on July 22, 2003 and analyzed for TPH diesel by 8015B with silica gel cleanup, TPH gasoline by 8260B, benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by 8260B. One sample from MW-1 that tested positive for diesel was run for Semi-volatile organic compounds (SVOC)) by EPA Method 8270.

### Groundwater and Surface Water Monitoring Field Activities

Clearwater conducted groundwater and surface water monitoring and sampling field activities on May 25, 2005. All work was performed in accordance with Clearwater's Field Protocols (Attachment A). The wells were checked for the presence of SPH. An electronic water level indicator was used to gauge depth to water accurate to within ±0.01 feet. The stream was sampled prior to the monitoring wells being gauged. The wells were purged of groundwater until sampling parameters (e.g. temperature, pH and conductivity) stabilized, which occurred by approximately three wet casing volumes. Groundwater monitoring and well purging information was recorded on the Well Gauging/Purging Calculations and Purge Data sheets (Attachment B). To prevent cross-contamination, purging devices were decontaminated between wells in an Alconox® wash followed by double rinsing in clean tap water. Following the recovery of water levels to at least 80% of their static levels, Clearwater collected groundwater and surface water samples from the monitoring wells using new disposable polyethylene bailers. Samples were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory. Purge water and rinseate transported in the van and drummed at yard pending disposal.

The samples were analyzed for; TPHd by EPA Method 8015 modified with silica gel cleanup, TPHg by EPA Method 8260B, BTEX and MTBE by EPA Method 8260B at Kiff Analytical LLC, Davis, California, a California Department of Health Services certified laboratory. Additional



water samples were collected from monitoring wells MW-1 and MW-3 for possible analysis of SVOCs by EPA Method 8270 at Calscience Environmental Laboratories, Inc., Garden Grove, California. The analysis was scheduled to be performed on the water sample containing the highest concentration of TPHd.

### **Groundwater Monitoring Results**

On May 25, 2005 the depth of water ranged from 3.15 (MW-5) to 4.15 feet bgs (MW-3) creating a gradient of 0.014 feet/feet in a south west direction (Figure 3). The depth to water measurement recorded for MW-5 was not used in the contouring of the groundwater gradient due to its installation in backfill. There was no observable floating product in any of the monitoring wells. The laboratory reported that all of the samples submitted did not contain concentrations of the target analytes above the standard laboratory reporting limit of 50  $\mu$ g/L for TPHd and TPHg or 0.50  $\mu$ g/L for BTEX and MTBE (Table 2). For a complete summary of the analytical results see Kiff Analytical Report No. 44009 included as Attachment C.

### Conclusions and Recommendations

Groundwater direction and gradient are consistent with previous observations made during the same period of the hydrologic cycle. The concentration of TPHd reported in the samples submitted during the last groundwater monitoring event (May 2004) appears to have been anomalous. Clearwater recommends that the groundwater monitoring program be discontinued for the project site while a No Further Action Request Report (NFAR) is prepared.

### Attachments:

- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Groundwater Elevation Contour Map, May 25, 2005
- Figure 4: Dissolved Phase Hydrocarbon Distribution, May 25, 2005
- Table 1: Well Construction Data
- Table 2: Groundwater Elevations and Water Sample Analytical Results
- Attachment A: Clearwater Groundwater Sampling Protocols
- Attachment B: Clearwater Sampling and Field Notes
- Attachment C: Kiff Analytical Report No. 44009

AB024D 5 of 6 August 2005



### Certification

This report was prepared under the supervision of a Professional Geologist in the state of California. All statements, conclusions and recommendations are based solely upon published results from previous consultants, field observations by Clearwater and laboratory analysis performed by a California State-certified laboratory related to the work performed by Clearwater.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Clearwater Group has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

Prepared by:

Jessica Chiaro Project Manager Reviewed/by:

James A. Jacobs P.G. No. 4815; C.H

Chief Hydrogeologist

JACOBS NO. 88 CERTIFIED

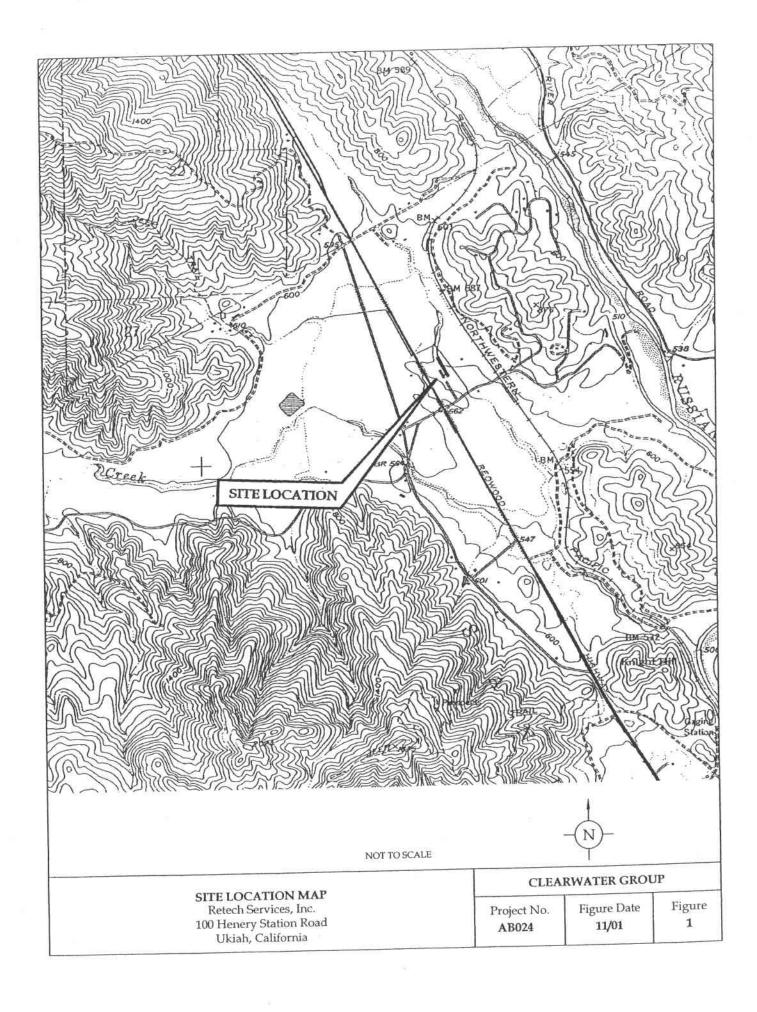
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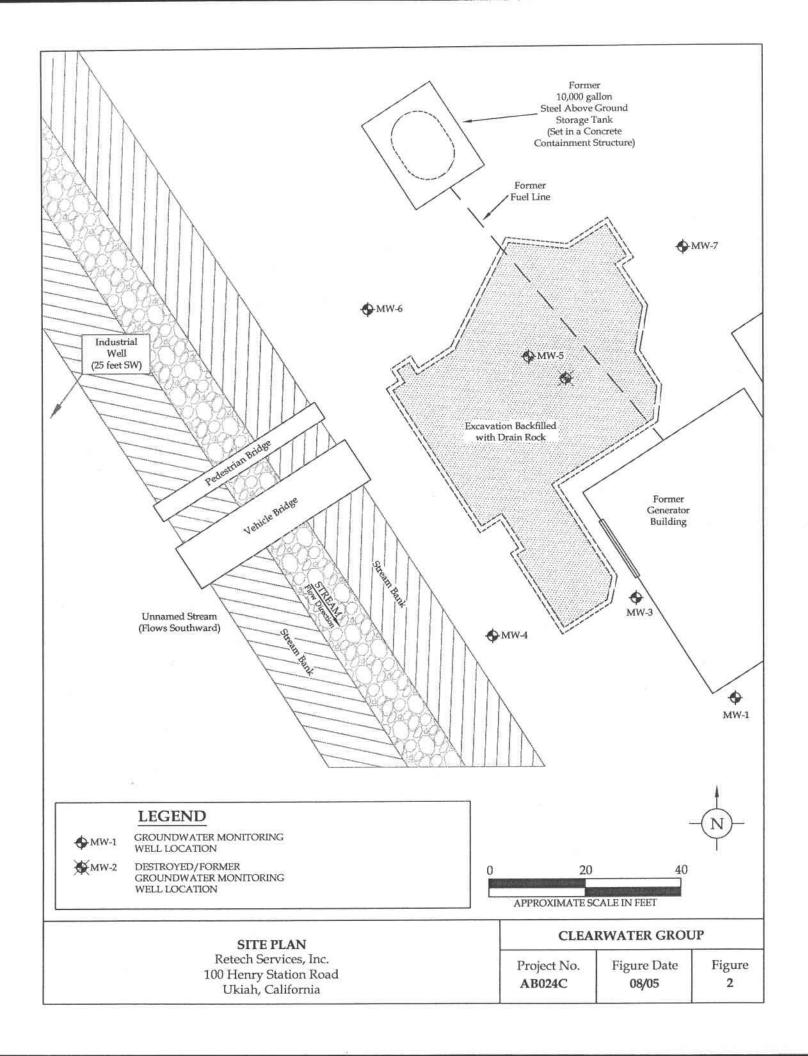
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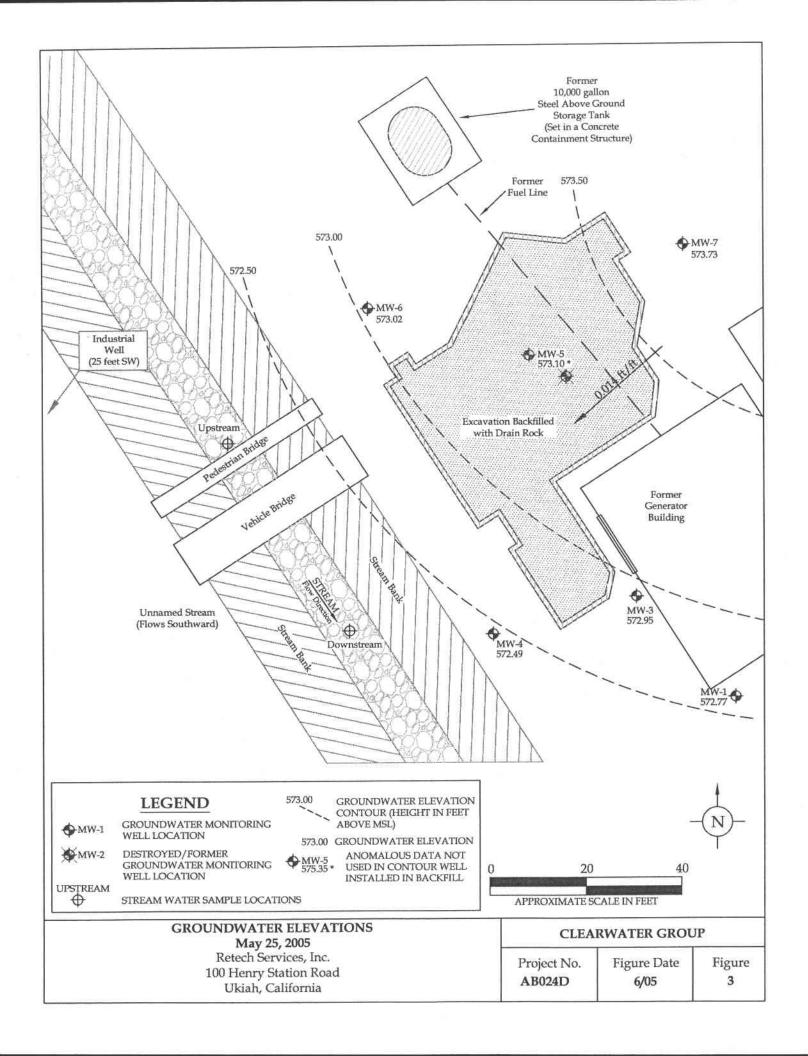
Mr. Robin Lampson, Retech Systems LLC, 100 Henry Station Road, Ukiah, CA 95482

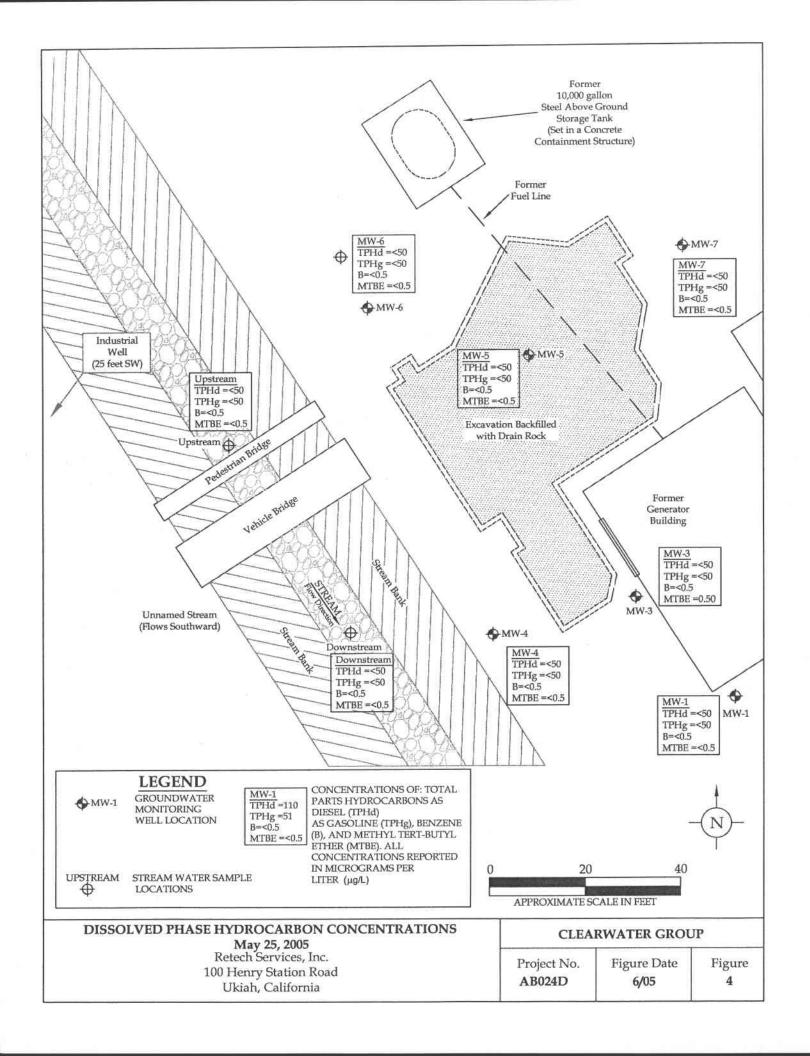
Mr. Pete Lowman, Mendocino County Health Department, 501 Low Gap Road, Room 1326, Ukiah, CA 95482

# **FIGURES**









## **TABLES**

## Table 1 WELL CONSTRUCTION DATA

### Retech Systems LLC

100 Henry Station Road Ukiah, CA

Clearwater Group Project No. AB024C

Well I.D.	Date Intstalled	Borehole Diameter (inches)	Depth of Borehole (feet)				Bentonite Seal (feet)	Cement (feet)
 				-3				
MW-1	6/15/1998	6.0	16.0	2.0	2.5-15.0	2.0-15.0	1.5-2.0	0.75-1.5
MW-2*	6/15/1998	6.0	16.0	2.0	2.5-15.0	2.0-15.0	1.5-2.0	0.75-1.5
MW-3	6/15/1998	6.0	16.0	2.0	2.5-15.0	2.0-15.0	1.5-2.0	0.75-1.5
MW-4	12/10/1999	6.0	16.0	2.0	2.5-15.0	2.0-15.0	1.5-2.0	0.75-1.5
MW-5	10/17/2002	10.0	15.0	4.0	4.5-15.0	4.0-15.0	2.0-4.0	0.5-2.0
MW-6	10/17/2002	8.0	15.0	2.0	4.5-15.0	4.0-15.0	2.0-4.0	0.5-2.0
MW-7	10/17/2002	8.0	15.0	2.0	4.5-15.0	4.0-15.0	2.0-4.0	0.5-2.0

Note:

MW-2\*

Destroyed

Table 2
GROUNDWATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS
Retech Services, Inc.
100 Henry Station Road
Uklah, California
Clearwater Group Project No. AB024D

						Cical mater	oral water Group 11 office 120		1	5	;		COLEG	7	2000	2
	Sampling	TOC	DTW (feet)	GWE	SPH (feet)	TPHg (ug/L)	TPHd (µg/L)	B T E X (µg/L) (µg/L) (µg/L) (µg/L)	Τ (μg/L) (	E µg/L) (	X Hg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(µg/L)
	Date	(acce)				,								1	****	
	80/22/98	576.73	5.08	571.65	0	75	180	<0.5	<0.5	<0.5	<0.5	8.5	All ND	i	i	I
	01/11/99	576.73	5.34	571.39	0	62	135	<0.3	<0.3	<0.5	<0.5	11	All ND	:	į	
	02/22/99	576.73	3.27	573.46	ļ		•	•	i	1		ŀ	*****	i	1	1
	03/11/99	576.73	3.52	573.21	ł	1	!	ļ	ł	!		i	-		!	-
	04/23/99	\$76.73	4.41	572.32	0	27	96	<0.3	<0.3	<0.5	<0.5	1.7	All ND	1	ŧ	1
	05/27/99	576.73	5.38	571.35	1	;	1	1	į	1	ŀ	ł	į	i	i	į
	06/25/99	\$76.73	6.02	570.71	i	i	!	1	į	ļ	•	:	İ	•	ŀ	į
	07/21/99	\$76.73	7.26	569.47	l	-	į	•	i	Í		į	1	:	i	İ
	08/27/99	576.73	8.91	567.82	1	:	ļ	İ	ł	!	į	:	-	ŀ	i	l
	10/04/99	\$76.73	09.6	567.13	i	;	1	i	ŀ	1		ļ		•	1	1
	11/06/99	576.73	8.61	568.12	1	1	!	i	:	i		ł	1	!	ŧ	ļ
	12/17/99	576.73	5.93	570.80	0	<\$0	<b>~</b>	<0.5	<0.5	<0.5	<0.5	\$.0	All ND	1	į	-
	01/27/00	576.73	3.88	572.85	i	1	į	•	į	į	i	1	1	-	•	-
	05/11/00	576.73	4.71	572.02	0	<b>\$</b> 0	•	<0.5	<0.5	<0.5	<0.5	0.5	All ND	i	i	i
	08/10/00	576.73	8.14	568.59	0	130	į	<0.5	<0.5	<0.5	<0.5	<b>\$</b> .0	All ND	į	ł	1
	11/02/00	576.73	7.01	569.72	0	\$\$ \$	<b>~</b>	<0.5	<0.5	<0.5	<0.5	<\$.0	All ND	ļ	1	-
	10/28/02	576.73	10.55	566.18	0	<b>3</b> 0	<b>~</b> \$0	<0.5	<0.5	<0.5	<b>~0.5</b>	<5.0	•	i	į	į
	01/21/03	576.73	3.85	572.88	0	130	220	۸0.5 د	<b>0.5</b>	<b>0.5</b>	<b>√</b> 1.0	√.0	į	:	1	ļ
	04/23/03	576.73	3.86	572.87	0	417	130	<0.5	<0.5	<0.5	<b>√1.0</b>	<1.0	:	ŀ	1	-
	07/22/03	576.73	6.79	569.94	0	<50	87	<0.5	<0.5	<b>₹</b> 0. <b>\$</b>	<b>60.5</b>	0.62	All ND	į	ì	ŀ
	10/29/03	576.73	10.60	566.13	0	\$	200	<b>0.5</b>	<0.5	<0.5	<0.5	<0.5	All ND	i	ì	-
	02/05/04	576.73	2.75	573.98	0	51	110	<0.5	₹0.5	<b>0.5</b>	<0.5	<0.5	All ND	i	i	
	05/10/04	576.73	5.33	571.40	0	58	650	<b>0.5</b>	<0.5	<0.5	<0.5	<0.5	All ND	ļ	ŀ	i
	05/25/05	576.73	3.96	572.77	0	°\$0	~ <del>2</del> 0	<0.5	<0.5	<0.5	<0.5	<0.5	1	I	I	i
*C-WM	06/23/98	577.18	4.98	572.20	0	36,000	110,000	<0.5	51	150	150	<100		20	120	<b>8</b> 0
	01/11/99	577.18	5.29	571.89	0	5,500	49,000	4	4.4	55	77	140		<13	310	130
	02/22/99	577.18	2.81	574.37	1	-	****		į	1	ļ	ŀ		ł	į	-
	03/11/99	577.18	3,10	574.08	i	1	1	!	i	١	į	:	1	į	i	.,
	04/23/99	577.18	4.14	573.04	0	4,100	59,000	<1.2	41.2	46	9.6	120		<b>V</b> 10	22	84
	05/27/99	577.18	5.25	571.93	i	1	1	:	į	-	1	ļ		I	1	1
	06/22/99	577.18	5.97	571.21	i	1	i	ļ	į	İ	•	i	i	!	i	-
	07/21/99	577.18	7.19	569.99	1	1	į	;	•	1	1	į	•	į	i	
	08/27/99	577.18	9.00	568.18	-		-	ŀ	1	1	•	1	1	į	1	
	66/80/60	l	1	1	l	WELL DESTROYED DURING EXCAVATION ACTIVITIES	ROYED DUR	ING EXC	AVATIC	N ACT	IVITIES			i	i	-

# Table 2 GROUNDWATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS Retech Services, Inc. 100 Henry Station Road Uklah, California Clearwater Group Project No. AB024D

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2MN (µg/L)	:	1		-	1	ŀ	į	l	-	1	l	1	l		1	l	1		ì	į	•		1	•	1	1	ł	l	:	:	i	-	1	1	į	:	1	l
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SVOCs (µg/L)		All ND	All ND	1	ļ	All NO	ļ	-	I	1	1	1	All No	1	All ND	All ND	All ND			•	!	•	***	All ND	ļ	All ND	-	Alno	All ND	All ND	1	•	:	!	-	-	i	i
MTBE (µg/L)		17**	19	i	-	<b>s</b> n	:		1	İ	į	I	2	1	<5.0	65.0	\$0.	<b>~1</b> .0	<b>7</b> .0	<1.0	<0.5	<0.5	0.58	<0.5	<0.5	11	!	\$.0	<b>6</b> 5.0	<5.0	€3.0	4.0	<b>5.</b> 0	<0.5	₹0.5	<0.5	<0.5	\$.0>
X ig/L)		1.7	<0.5	į		<b>0.5</b>	į	i	į	ŀ	l	;	<0.5	i	<0.5	<b>0.5</b>	<0.5	<1.0	<b>√</b> 1.0	<1.0	<0.5	<b>0.5</b>	<b>0.5</b>	<b>₹</b> 0.5	<0.5	<0.5	į	<0.5	<0.5	<0.5	<0.5	<1.0	<b>0.5</b>	<0.5	<0.5	<0.5	<0.5	<0.5
E ug/L) (1		<0.5	<0.5	1	!	<0.5	=	1	l	1	!	i	<0.5		<0.5	<0.5	<0.5	<b>0.</b> 5	<0.5	<0.5	<0.5	<0.5	<b>0.5</b>	<0.5	<0.5	<0.5	ł	<0.5	<b>0.5</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<b>₹</b> 0.5
T E X (hg/L) (hg/L)		<0.5	<0.3	i	i	<0.3	į	ł	ļ	!	1	1	<0.5	į	<0.5	<0.5 5.0	<0.5	<b>0.</b> 5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	į	<b>0.5</b>	<b>0.5</b>	<0.5	<0.5	<0.5	<0.5	<b>0.5</b>	<0.5	<0.5	<0.5	<0.5
Β (μg/L) (		<0.5	<0.3		Ì	<0.3	į	1	}	1	ł	į	<b>₹</b> 0.5	į	<b>0.5</b>	<b>₹</b> 0.5	<0.5 2.0	<0.5	<0.5	<b>0.5</b>	<b>0.5</b>	<b>₹</b> 0.5	<0.5	<0.5	<0.5	<0.5	i	<0.5	<0.5	<0.5	<b>.</b> 60.5	<0.5	<0.5	0.5	<0.5	<0.5	<b>0.5</b>	<b>₹</b> 0.5
TPHd (µg/L)		200	<b>\$</b> 0	-	****	<b>0</b> \$≎	i	9	l	1	1	!	78	į	•	•	59	\$\$	110	28	78	120	98	120	<50	<b>0</b> \$>				\$	\$	64	\$	<\$0 \$	<b>\$</b> 0	<\$0 \$0	<\$0 \$0	<50
TPHg (µg/L)		380	\$ \$	!	1	\$0 \$	!	1	•	1	!	I	<b>√</b> 20	ļ	\$\$ \$	\$0	\$0	\$\$ \$\$	\$0	0\$>	<\$0	\$	\$ \$0	<50	<\$0	\$	!	<b>\$</b> 0	\$ \$	°50	<b>~20</b>	<\$0	0 <b>\$</b> 0	\$	0\$	\$0 \$0	<\$0	~ \$0 \$
SPH (feet)		0	0	i	l	0	į		l	ŀ	ł	l	0	l	0	0	0	0	0	0	0	0	0	0	0	0	i	0	0	0	0	0	0	0	0	0	0	0
GWE (feet)		571.64	571.42	573.27	573.00	572.19	571.37	570.82	569.56	567.91	567.30	568.41	571.05	573.00	571.87	568.84	569.85	566.36	572.89	572.98	570.21	566,35	574.10	572.61	572.95	570.74	572.52	571.66	568.86	570.00	566.46	572.30	572.48	570.13	566.50	573.70	571.43	572.49
DTW (feet)		5.46	5.68	3.83	4.10	4.91	5.73	6.28	7.54	9.19	9.80	8.69	6.05	4.10	5.23	8.26	7.25	10.74	4.21	4.12	6.89	10.75	3.00	4.49	4.15	5.51	3.73	4.59	7.39	6.25	9.79	3.95	3.77	6.12	9.75	2.55	4.82	3.76
TOC	(1)	577 10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	\$77.10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	577.10	576.25	576.25	576.25	576.25	\$76.25	576.25	576.25	576.25	576.25	576.25	576.25	576.25	576.25
Sampling Date	3	90/2/090	01/11/99	02/22/00	03/11/99	04/23/99	05/27/99	06/22/99	07/21/99	08/27/99	10/04/99	11/06/99	12/17/99	01/27/00	05/11/00	08/10/00	11/02/00	10/28/02	01/21/03	04/23/03	07/22/03	10/29/03	02/02/04	05/10/04	05/25/05	12/17/99	1/27/00	05/11/00	08/10/00	11/02/00	10/28/02	01/21/03	04/23/03	07/22/03	10/29/03	02/02/04	05/10/04	05/25/05
Well	140.	NAVA.3	CHAIN																							4-WM												

# Table 2 GROUNDWATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS

# Retech Services, Inc. 100 Henry Station Road Ukiah, California Clearwater Group Project No. AB024D

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	<5.0	į	į	ŧ	i	i	ļ	!	į	į		į	:	ł	ł	i	***	1	ł	į	ļ	•	į	-	į	:	;	1	į	}	1	ļ	i	į	į	į	*
	All ND	All ND	All ND	All ND	i	1	1	į	ì	İ		!	İ	i	1	ļ	-	ļ	1	1	1	ŀ	1		All ND	All ND	All ND	All ND	1	i	All ND	All ND	:	1	-	•	
	<1.0	<1.0	<1.0	<0.50	<0.50	<0.5	<0.5	<0.5	<1.0	√1.0	<1.0	0.50	<0.50	<0.5	<0.50	<0.5	<1.0	<1.0	<1.0	<0.50	<0.50	<b>0.5</b>	<b>₹</b> .0	<0.5	∇	7	\$.0	€.0	1	1	€3.0	€.0	i	<0.5	<0.5	<0.5	
	<1.0	<1.0	<1.0	<.50	<.50	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	0.5	<0.5	<0.5	<b>0.5</b>	<0.5	60.5	0.5	<0.5	<0.5	ı	ł	<0.5	<0.5	I	<0.5	<0.5	<b>₹</b> 0.5	
									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<b>⊘</b> .5	<0.5	<0.5	<0.5	<0.5	<0.5	<b>₹</b> .0 <b>.5</b>	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	1	I	<0.5	<0.5	1	<0.5	<0.5	<b>0.5</b>	
	<0.5	<0.5	<0.5	<b>0.5</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<b>0.5</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<b>40.5</b>	<0.5	<0.5	<0.5	<0.5	<0.3	<0.3	<0.5	<b>0.5</b>	I	į	<0.5	<0.5	١	<0.5	<b>0.5</b>	<b>₹</b> 0.5	
	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	&. 8.	₹.0>	<0.5	<0.5	<0.5	<0.5	<0.5 5.05	<u> </u>	<0.5	<b>₹</b> 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	\$.0	<0.5	<0.3	<0.3	<b>₹</b> 0.5	<0.5	1	i	<0.5	<0.5	ŀ	<0.5	<0.5	<0.5	
i de	100	76	\$\$	\$ \$	<b>~</b> 50	<\$0	<b>~</b> \$0	\$\$ \$	0\$>	\$0	<b>\$</b> 0	\$ \$0	<\$0	1504	\$0	\$0	\$	\$ \$	\$	\$	\$\$ \$\$	\$0	\$0	<\$0 \$20	Ş.	\$	<\$0	i	•	I	744	<b>₹</b> 0	ł	0\$>	<b>\$</b> 0	\$,	
1 61	\$	<50	584	<50	<b>~</b> 50	<50	<b>~</b>	<\$0	<\$0	<b>\$</b>	<\$0 \$0	\$50	\$0	\$0	\$3	\$0	<b>\$</b> 0	<b>~</b>	\$	\$0 \$0	\$50	\$0	\$0	\$\$ \$	\$	\$	<50	<\$0	ı	I	0\$>	<\$0 \$	i	\$0	<b>\$</b> 0	<50	
(	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(annu)	566.33	572.79	573.04	570.30	566.38	574.35	571.83	573.10	566.70	572.93	573.00	570.50	566.73	573.55	571.75	573.02	566.65	573.94	573.67	570.56	566.63	575.04	572.01	573.73	I	l	1	i	1	****	1	ļ	•	1		i	
(appl)	0.87	3.41	3.16	5.90	9.82	1.85	4.42	3.15	10.00	3.77	3.70	6.20	9.97	3.15	4.95	3.68	10.49	3.20	3,47	6.58	10.51	2.10	5.13	3.41		į	į	İ	ł	į	İ	į	1	ļ	1	1	
(ree)	576.20	576.20	\$76.20	576.20	576.20	576.20	576.25	576.25	576.70	576.70	576.70	576.70	576.70	576.70	576.70	576.70	577.14	577.14	577.14	577.14	577.14	577.14	577.14	577.14	!		ļ	ļ	ļ	!		į	-	****	į	į	
Date	10/28/02	01/21/03	04/23/03	07/22/03	10/29/03	02/02/04	05/10/04	05/25/05	10/28/02	01/21/03	04/23/03	07/22/03	10/29/03	02/02/04	05/10/04	05/25/05	10/28/02	01/21/03	04/23/03	07/22/03	10/29/03	02/02/04	05/10/04	05/25/05	01/11/00	04/73/99	12/17/99	05/11/00	08/10/00	11/02/00	04/23/03	07/22/03	10/29/03	02/02/04	05/10/04	05/25/05	
ivo.	ACW.	Cakalar							y-MM	)							7.W.M								2	Straom	on cann										
	(No. 1980) (1001) (1001) (1001) (1001) (1001) (1001) (1001) (1001) (1001)	100 800 576 20 987 566.33 0 <50 100 <0.5 <0.5 <0.5 <1.0 <1.0 All ND <5.0 <5.0	5 10/28/02 576.20 9.87 566.33 0 <50 100 <0.5 <0.5 <0.5 <1.0 <1.0 All ND <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	10/28/02 576.20 9.87 566.33 0 <50 100 <0.5 <0.5 <0.5 <1.0 <1.0 All ND <5.0 <5.0 100 <0.40.3 <0.5 <1.0 <1.0 All ND	10/28/02 576.20 9.87 566.33 0 <50 100 <0.5 <0.5 <0.5 <1.0 <1.0 All ND <5.0 <5.0 100 <0.5 <0.5 <0.5 <1.0 <1.0 All ND	10/28/02 576.20 9.87 566.33 0 <50 100 <0.5 <0.5 <0.5 <1.0 <1.0 All ND <5.0 <5.0 10121/03 576.20 3.41 572.79 0 <50 76 <0.5 <0.5 <0.5 <1.0 <1.0 All ND	10/28/02 576.20 9.87 566.33 0 <50 100 <0.5 <0.5 <0.5 <1.0 <1.0 All ND <5.0 <5.0 10/28/02 576.20 3.41 572.79 0 <50 76 <0.5 <0.5 <0.5 <1.0 <1.0 All ND	10/28/02 576.20 9.87 566.33 0 <50 100 <0.5 <0.5 <0.5 <1.0 <1.0 All ND <5.0 <5.0 <1.0 <1.0 All ND <5.0 <5.0 <1.0 <1.0 All ND <5.0 <5.0 <1.0 <1.0 All ND <5.0 <5.0 <1.0 <1.0 All ND <5.0 <1.0 <1.0 All ND <5.0 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(160)         (160)         (100)         (201)         (201)         (210)</th> <th>10/28/02         576.20         9.87         566.33         0         450         100         40.5         40.5         40.0         40.0         40.5         40.0         40.0         40.0         40.5         40.0</th> <th>10/28/02         576.20         9.87         566.33         0         &lt;50</th> 100         <0.5	Date         (160)         (160)         (100)         (201)         (201)         (210)	10/28/02         576.20         9.87         566.33         0         450         100         40.5         40.5         40.0         40.0         40.5         40.0         40.0         40.0         40.5         40.0	10/28/02         576.20         9.87         566.33         0         <50	10/28/02         576.20         9.87         566.33         0         450         100         40.5	10728/02         576.20         9.87         566.33         0         450         100         40.5         40.5         40.5         40.6         41.0         All ND         45.0         40.0         40.0         41.0         All ND         45.0         40.0	Date         (text) <th>10/28/02         576.20         9.87         566.33         0         &lt;50</th> 100         <0.5	10/28/02         576.20         9.87         566.33         0         <50	19/28/02         576.20         9.87         566.33         0         <50	10728/02         576.20         9.87         566.33         0         <50	10/28/02         576.20         9.87         566.33         0         450         100         40.5         40.5         40.5         41.0	10/28/02   576.20   9.87   566.33   0   <50   100   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5	10/28/02   576.20   9.87   566.33   0   <50   100   <0.5   <0.5   <0.5   <0.1   <0.1	10/28/02   576.20   987   566.33   0	10/28/02   576.20   9.87   566.33   0   <50   100   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5   <0,5	102802   576.20   987   566.33   0   <50   100   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5   <0.5	10728072   576.20   987   566.31   0   450   100   40.5	10728072   576.20   987   566.33   0	102802   57620   341   57279   0	1002807   576.20   341   572.79   0	102802   575.20   987   565.31   0	1012/002   575.20   987   565.31   0	1002802   576.20   978   566.31   0	1002802   576.20   987   566.31   0	101/28/07   576.20   345   576.20   346   576.20   347   576.20   348   576.20	10128003   575.20   345   345   34	1012,003   755.20   347   752.79   0   549   100   415   415   410   4	100,2002   575,20   547   572,74   0   584   540   5	1002000   575.20   9.87   565.31   0

June 2005

Table 2 GROUNDWATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS

Retech Services, Inc.
100 Henry Station Road
Ukiah, California
Clearwater Group Project No. AB024D

NAP (µg/L)		
2MN (µg/L)		
AN (µg/L)		
SVOCs (µg/L)	All ND Al	
MTBE (µg/L)	1 1 % % 1 1 % % 1 % % % % % % % % % % %	
X ng/L)	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
E µg/L) (1	6.5 5.0 6 1 1 6.0 6 1 6.0 6.5 5.0 6.5	
T (µg/L) (	6 6 6 1 6 6 1 6 6 6 6 6 6 6 6 6 6 6 6 6	
B T E X (µg/L) (µg/L) (µg/L)	60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
TPHd (µg/L)	8 8 8 1 1 1 1 8 1 8 5	(jed)
TPHg (µg/L)	8 8 8 8 1 1 1 8 1 8 8 8	n 4 8020 (modified) iodified) iopical of fuel
SPH (feet)	0000000000	samples take: EPA Method Method 8015 (m thod 8015 (m) 8270
GWE (feet)		rea level product); no al xylenes by ne by EPA me thod 8260B PA Method 6 3270 st reported tion limit matographii
DTW (feet)		ed to mean s  (floating I zene and tott zene and tott ons as gasoli ons as diesel by EPA Meel by EPA Meel od 8270 ad 8270 ad 8270 ction limit no rethod detect sampled n range; chrc
TOC (feet)	[	ing reference levation hydrocarbon n hydrocarbo n hydrocarb n hydrocarb butyl ether ruganic comj EPA Metho EPA Metho er liter n er liter method detee i indicated n gauged, or s yed 9/8/99 mation by El
Sampling Date	01/11/99 04/23/99 12/17/99 05/11/00 08/10/00 11/02/00 04/23/03 07/22/03 10/29/03 05/10/04	Top of well casing referenced to mean sea level Depth to water Groundwater elevation Separate phase hydrocarbons (floating product); no samples taken Benzene, toluene, ethylbenzene and total xylenes by EPA Method 8020 (modified) Total petroleum hydrocarbons as gasoline by EPA Method 8015 (modified) Total petroleum hydrocarbons as diesel by EPA method 8015 (modified) Methyl tertiary butyl ether by EPA Method 8260B Semi-volatile organic compounds by EPA Method 8270 Anthracene by EPA Method 8270 2-Methyl-napthalene by EPA Method 8270 Micrograms per liter Not detected; method detection limit not reported Not detected > indicated method detection limit Not available, gauged, or sampled MW-2 Destroyed 9/8/99 MTBE Confirmation by EPA Method 8260 RESults within quantitation range; chromatographic pattern not typical of fuel
Well No.	Down Stream	NOTES: TOC DTW GWE SPH BTEX TPHG MTBE (8260) SVOCS (8270) A A 2MN N N N CHgL) ND C##



### CLEARWATER GROUP

### Groundwater Monitoring and Sampling Field Procedures

Prior to beginning, a decontamination area is established. Decontamination procedures consist of scrubbing downhole equipment in an Alconox® solution wash (wash solution is pumped through any purging pumps used), and rinsing in a first rinse of potable water and a second rinse of potable water or deionized water if the latter is required. Any non-dedicated downhole equipment is decontaminated prior to use.

Prior to gauging, purging, and sampling a well, caps for all on-site wells should be opened to allow atmospheric pressure to equalize if local groundwater is under confined or semi-confined condition. The static water level is measured to the nearest 0.01 feet with electronic water sounder. Depth to bottom is typically measured once per year, at the request of the project manager, and during Clearwater's first visit to a site. If historical analytical data are not available, with which to establish a reliable order of increasing well contamination, the water sounder and tape will be decontaminated between each well. If floating separate-phase hydrocarbons (SPH) are suspected or observed, SPH is collected using a clear, open-ended product bailer, and the thickness is measured to the nearest 0.01 feet in the bailer. SPH may alternatively be measured with an electronic interface probe. Any monitoring well containing a measurable thickness of SPH before or during purging is not additionally purged and no sample is collected from that well. Wells containing hydrocarbon sheen are sampled unless otherwise specified by the project manager. Field observations such as well integrity as well as water level measurements and floating product thicknesses are noted on the Gauging Data/Purge Calculations form.

Well Purging

Each monitoring well to be sampled is purged using either a PVC bailer or a submersible pump. Physical parameters (pH, temperature and conductivity) of the purge water are monitored during purging activities to assess if the water sample collected is representative of the aquifer. If required, parameters such as dissolved oxygen, turbidity, salinity etc. are also measured. Samples are considered representative if parameter stability is achieved. Stability is defined as a change of less than 0.25 pH units, less than 10% change in conductivity in micro mhos, and less than 1.0 degree centigrade (1.8 degrees Fahrenheit) change in temperature. Parameters are measured in a discreet sample decanted from the bailer separately from the rest of the purge water. Parameters are measured at least four times during purging; initially, and at volume intervals of one well volume. Purging continues until three well casing volumes have been removed or until the well completely dewaters. Wells which dewater or demonstrate a slow recharge may be sampled after fewer than three well volumes have been removed. Well purging information is recorded on the Purge Data sheet. All meters used to measure parameters are calibrated daily. Purge water is sealed, labeled, and stored on site in D.O.T.-approved 55-gallon drums. After being chemically profiled, the water is removed to an appropriate disposal facility by a licensed waste hauler.

Groundwater Sample Collection

Groundwater samples are collected immediately after purging or, if purging rate exceeds well recharge rate, when the well has recharged to at least 80% of its static water level. If recharge is extremely slow, the well is allowed to recharge for at least two hours, if practicable, or until sufficient volume has accumulated for sampling. The well is sampled within 24 hours of purging or repurged. Samples are collected using polyethylene bailers, either disposable or dedicated to the well. Samples being analyzed for compounds most sensitive to volatilization are collected first. Water samples are placed in appropriate laboratory-supplied containers, labeled, documented on a chain of custody form and placed on ice in a chilled cooler for transport to a state-certified analytical laboratory. Analytical detection limits match or surpass standards required by relevant local or regional guidelines.

**Quality Assurance Procedures** 

To prevent contamination of the samples, Clearwater personnel adhere to the following procedures in the field:

- A new, clean pair of latex gloves is put on prior to sampling each well.
- Wells are gauged, purged and groundwater samples are collected in the expected order of increasing degree of contamination based on historical analytical results.

1

- All purging equipment will be thoroughly decontaminated between each well, using the procedures previously
  described at the beginning of this section.
- During sample collection for volatile organic analysis, the amount of air passing through the sample is minimized. This helps prevent the air from stripping the volatiles from the water. Sample bottles are filled by slowly running the sample down the side of the bottle until there is a convex meniscus over the mouth of the bottle. The lid is carefully screwed onto the bottle such that no air bubbles are present within the bottle. If a bubble is present, the cap is removed and additional water is added to the sample container. After resealing the sample container, if bubbles still are present inside, the sample container is discarded and the procedure is repeated with a new container.

Laboratory and field handling procedures may be monitored, if required by the client or regulators, by including quality control (QC) samples for analysis with the groundwater samples. Examples of different types of QC samples are as follows:

- Trip blanks are prepared at the analytical laboratory by laboratory personnel to check field handling procedures.
   Trip blanks are transported to the project site in the same manner as the laboratory-supplied sample containers to be filled. They are not opened, and are returned to the laboratory with the samples collected. Trip blanks are analyzed for purgeable organic compounds.
- Equipment blanks are prepared in the field to determine if decontamination of field sampling equipment has
  been effective. The sampling equipment used to collect the groundwater samples is rinsed with distilled water
  which is then decanted into laboratory-supplied containers. The equipment blanks are transported to the
  laboratory, and are analyzed for the same chemical constituents as the samples collected at the site.
- Duplicates are collected at the same time that the standard groundwater samples are being collected and are
  analyzed for the same compounds in order to check the reproducibility of laboratory data. They are typically
  only collected from one well per sampling event. The duplicate is assigned an identification number that will
  not associate it with the source well.

Generally, trip blanks and field blanks check field handling and transportation procedures. Duplicates check laboratory procedures. The configuration of QC samples is determined by Clearwater depending on site conditions and regulatory requirements.

# ATTACHMENT B

CLEARWATER CROUP, INC. DAILY FIELD REPORT Company/ Firm: rechnician Project Manager: She Contact: EVENTS/COMMENTS/REMARKS Page:

Signature:

Attachments:

Figures Included:

		PU			SHE				n h	A	
1		100 HE	VRY ST,	A1.100	N/Rd	7	-/2-)	+	Sheet	ONE	200
Job No.:	BO24D Location:	UKia	h, G	· ·		Date: 5	125/0	55	Tech: \(\mathcal{L}\)	Diving &	TiKK
WELL#	TIME VOL. (gal.)	ORP C	ND TMP	DO	pH	Fe <sup>2+</sup>	Fe <sub>T</sub>			114 94	1 (154)
MWC Calc. purge	12382,00	NA 3	30 23.18	e Not	6.93	MA	NA	Sample f	TPHOT	8260 Metals	
volume	1246 5,50	V 5	50 23.5	K V	643	V	Ψγ	Purging PVC Bai		Disp. Bailer	
			1					1102			J
	COMMENTS: color,	turbidity, recl	harge, sheen,	odor	11)	· /b /	5000				-
¥ 3	C SAR,	DW, G	001/ W	DUN	GN	NOC.	yor	17	00		<b>-</b> €
ž	POST DEPTH TO W	ATER:	3.16	,		SAMPLI	E TIME:	-17	00		-:
WELL#	TIME VOL. (gal.)	ORP C	ND TMP	DO	рН	Fe <sup>2+</sup>	Fe <sub>T</sub>		.,	1CA Gal	Ganos
Calc. purge	1253 200	VA G	4 22.0 4 22.0°	CR/A C /	6,28		NA	Sample f TPHg BTEX	TPHd MTBE	8260 Metals 8	SV08
volume	17.59 3.50	V) 10	1 220	47				Purging l	Method:		
2-10								PVC Bai	ler/Pump/I	Disp. Bailer	7
	COMMENTS: color,	turbidity, rec	harge, sheen,	odor	^				<del>, /</del>		<b>-</b> 23
	1/200		9000)	7	She	EN,	ND	all	R	e	- 0
	POST DEPTH TO W	/ /	J 3,9			SAMPLI	E TIME:		215	N	MAY
WELL#	TIME VOL. (gal.)	ORP C	ND TMP	DO	рН	Fe <sup>2+</sup>	Fe <sub>T</sub>	х		12 Se 12 17	1
Calc. purge	1308 Cfcts	NAE	21/2	e MH	673	NA	NH A	Sample f FPHg BTEX	TPHd \	8260 Hetals	VOC 276
volume	(31) 5 30		101216	V	6113	W	₩.	Purging	Method:		
								PVC Ba	iler/Pump/I	rsp. Bailer	1
X <del></del> X	COMMENTS: color,	turbidity, rec	harge, sheen,	odor				5			_
	CBAD DO	w. 900	D, No	ShE	NA	100	DQL	1)1	200	72	-
	POST DEPTH TO V	JATER:	131	5	) '	SAMPL	E TIME:	11	30		_

Clearwater Group Inc. - 229 Tewksbury Avenue, Point Richmond, California 94801

Phone: (510) 307-9943 Fax: (510) 232-2823

		]	PURG	EDAT	A,SHI	EET	4	1	. )	. 1	
0	n. )/s	100	TRAN	Ry Sta	ATION	Kan 7	Ant	INT	Sheet Tech Po	of J. R	200
Job No.	30241) Loca	ntion: [/	Kiah	1CH		Date:	1/97	103	Techeol	may D	ELCIU SUR
WELL#	TIME VOL.	(gal.) ORP	CND 7	и гмр do	pН	Fe <sup>2+</sup>	$Fe_{T}$			orky B	tu
700 19	Inte	Bo bob	111112	1784-114	75	MA	NAT	Sample 1	for: 151	(7LP)	
10/Wal	1999 499	DD A	4120	1 POC1	7.31	7	1	TPHg	TPHd C	8260	
Calc. purge	977	1	4130	1701	7.30	V	1/	BTEX	мтвы	Metals	
volume	1200 50	300	1100	0.1	1.0		Y	Purging	Method:		
2,78								PVC Ba	iler/Pump/D	isp. Bailer	
	COMMENTS: c	color turbidity.	recharge, s	heen, odor	1						_
	Tio by	TOWN N	Tout	appl	No Sh	GN.	Up C	DOCK	S		Pers
	POST DEPTH	TO WATER:	(VW)	3/1)		SAMPLI	E TIME:	13	15	et of de	Ky.
	FOST DELTH				**	Fe <sup>2+</sup>	Fe <sub>T</sub>			90	<b>3</b> "
WELL#	TIME VOL.	(gal.) ORP	CND T	TMP DO	pН	I.C	rc <sub>T</sub>		· ;	( ty	1
ma	120 81	DONA	4450	and No	17.0	PNA	M	Sample 1	for: 12/51		
Calc. purge	213 16	,00	19462	904 1	7.08	1		TPHg	TPHd	8260	
volume	12-21/23	50 V	445	9.120	7.00	> V	1/4	BTEX	MTBI	Metals	
23,09	45	V		10				Purging			
		34						PVC Ba	iler/Pump/D	isp. Bailer	
	COMMENTS:				7 1	-1-	-	0			-
	CLAR	) low	9000	, NOY	KEEN	No	DDO	K 12	270		D
	POST DEPTH	TO WATER:	/ 3	3.12		SAMPLI	E TIME:	10	100		NAI
MADEL I. II	TIME VOL.	(gal.) ORP	CND 7	TMP DO	pН	Fe <sup>2+</sup>	Fe <sub>T</sub>			100 gr. 6	χv
WELL#	THVIE VOE.	(gai.) OKI	1.1.1.	10-120/0	11/10	N/AI	2/1	0 1	. \	1029	1
Mys	11226 2,	OD NH	492 a	125°CM	644	7711	NN	Sample 1	TPHd TPHd	8260	
Calc. purge	1232 4	00	191 2	04	0.73	-1/		TPHg BTEX	MTRE	Metals	
volume	1235 5	30	112 2	DAM W	6,99	L W	1/1	Purging	_/:	Metalo	
5:38					-			150	iler/Pump/D	isn Bailer	*
								IVCDa	nem umpiz	Top. Dane.	j
	COMMENTS:	color, turbidity	, recharge, s	sheen, odor	. KO h	n A	2.11	rm( a	DAD 1	or Kc p	n
	CIGARIS	h YEllow	1 Start	Jow, Pa	ogk. N		EN, 5	17	Ut	UI I NO	119
	POST DEPTH	TO WATER:	الدك	68_		SAMPL	E TIME:	12	70		

Clearwater Group Inc. - 229 Tewksbury Avenue, Point Richmond, California 94801

Phone: (510) 307-9943 Fax: (510) 232-2823

### WELL GAUGING/PURGING CALCULATIONS CLEARWATER DATA SHEET GROUP Job No .: Location: Date; 229 Tewksbury Avenue, Point Richmond, CA 94801 Tel: (510) 307-9943 Fax: (510) 232-2823 Total number of DRUMS used for this event Drums on Site @ TOA/TOD Tech(s): Water Water: Soil: Soil: Notes PV SPL CV ST DTW DTB Well No. Diameter (ft) (gal) (gal) (ft) (ft) (ft) (in)

### **Explanation:**

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW) must be > 1 foot

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV, well development 10 x CV)

SPL = Thickness of Separate Phase Liquid

### Conversion Factors (cf)

2-inch diameter well cf = 0.16 gal/ft 4-inch diameter well cf = 0.65 gal/ft 6-inch diameter well cf = 1.44 gal.ft

# ATTACHMENT C



Date: 6/3/2005

Jessica Chiaro Clearwater Group, Inc 229 Tewksbury Avenue Point Richmond, CA 94801

Subject: 8 Water Samples Project Name: Retech Project Number: AB024D

Dear Ms. Chiaro,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Date: 6/3/2005

Project Name : Retech
Project Number : AB024D

Sample: Upstream

Matrix: Water

Lab Number: 44009-01

Sample Date :5/25/2005		Method		Amabasia	Date
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Analyzed
	< 0.50	0.50	ug/L	EPA 8260B	5/28/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/28/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/28/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/28/2005
Total Xylenes Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/28/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/28/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/28/2005
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	5/28/2005
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	6/1/2005
Octacosane (Diesel Surrogate)	96.0		% Recovery	M EPA 8015	6/1/2005

Sample: Downstream

Matrix: Water

Lab Number : 44009-02

Sample Date :5/25/2005		Method		Ain	Date
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethylbenzene Total Yulones	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Total Xylenes Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/1/2005
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	6/1/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	6/1/2005
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	6/1/2005
Octacosane (Diesel Surrogate)	100		% Recovery	M EPA 8015	6/1/2005

Approved By:

Joel Kiff



Date: 6/3/2005

Project Name: Retech
Project Number: AB024D

Sample: MW-7

Matrix: Water

Lab Number : 44009-03

Sample Date :5/25/2005		Method		A - Lucia	Dete
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
• • • • • • • • • • • • • • • • • • • •	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Total Xylenes Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/1/2005
Taluana de (Surri	101		% Recovery	EPA 8260B	6/1/2005
Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/1/2005
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	6/1/2005
Octacosane (Diesel Surrogate)	95.4		% Recovery	M EPA 8015	6/1/2005

Sample: MW-5

Matrix: Water

Lab Number: 44009-04

Sample Date :5/25/2005	\$ 6 mad	Method		Analysis	Date
Parameter	Measured Value	Reporting Limit	Units	Method	Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1 <b>/</b> 2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/1/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/1/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	6/1/2005
TPH as Diesel (Silíca Gel)	< 50	50	ug/L	M EPA 8015	6/1/2005
Octacosane (Diesel Surrogate)	95.0		% Recovery	M EPA 8015	6/1/2005

Approved By:

Joe Kiff



Date: 6/3/2005

Project Name: Retech
Project Number: AB024D

Sample: MW-4

Matrix: Water

Lab Number : 44009-05

Sample Date :5/25/2005		Method		Analysis	Date
Parameter	Measured Value	Reporting Limit	Units	Method	Analyzed
	< 0.50	0.50	ug/L	EPA 8260B	5/31/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/31/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/31/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/31/2005
Total Xylenes Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/31/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/31/2005
Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	100 102		% Recovery % Recovery	EPA 8260B EPA 8260B	5/31/2005 5/31/2005
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	6/1/2005
Octacosane (Diesel Surrogate)	94.0		% Recovery	M EPA 8015	6/1/2005

Sample: MW-6

Matrix: Water

Lab Number: 44009-06

Sample Date :5/25/2005		Method		Analysis	Date
Parameter	Measured Value	Reporting Limit	Units	Method	Analyzed
	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethylbenzene Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/1/2005
77 Louis 40 (Com)	100		% Recovery	EPA 8260B	6/1/2005
Toluene - d8 (Surr) 4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	6/1/2005
4-Bromonuoroberizerie (Surr)					
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	6/1 <b>/</b> 2005
Octacosane (Diesel Surrogate)	95.4		% Recovery	M EPA 8015	6/1/2005

Approved By:

Joe Kiff



Date: 6/3/2005

Project Name : Retech
Project Number : AB024D

Sample: MW-3

Matrix: Water

Lab Number: 44009-07

Sample Date :5/25/2005	(2)	Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/1/2005
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	6/1/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	6/1/2005
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	6/3/2005
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	6/3/2005

Sample: MW-1

Matrix: Water

Lab Number: 44009-08

Sample Date :5/25/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/1/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/1/2005
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	6/1/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/1/2005
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	6/3/2005
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	6/3/2005

Approved By:

Joel Kiff

Date: 6/3/2005

QC Report: Method Blank Data

Project Number: AB024D Project Name: Retech

Parameter	,			Ethylbenzene	Total Xylenes	Methyl-t-butyl ether (MTBE)	TPH as Gasoline	705 Toluene - d8 (Surr)	305 4-Bromofluorobenzene (Sum)	005	705	005	705	305	305	305	205	205	206	005	005	005
Date Anglyzed	014700	2	8/1/200		6/2/200	6/2/200		5/31/2005	5/31/2005	5/31/2005	5/31/2005	5/31/2005	5/31/2005	5/31/2005	5/31/2005	5/28/2005	5/28/2005	5/28/2005	5/28/2005	5/28/2005	5/28/2005	5/28/2005
Analysis	MEDA COAR 6/4/2008		M EPA 8015 8/1/2005		M EPA 8015 8/2/2005	M EPA 8015 6/2/2005		<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	EPA 8260B	<b>EPA 8260B</b>	EPA 8260B	EPA 6260B	EPA 8260B	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>
in the	9	1	*		ug/L	` <b>%</b>		ng/L	J/gn	ug/L	ug/L	攻	ug/L	*	*	ng/L	ug/L	√gn	γģ	7/6n	1/gn	*
Method Reporting	2	3			20			0.50	0.50	0.50	0.50	0.50	20			0.50	0.50	0.50	0.50	0.50	90	
Measured	9	3	73.8		× 50	92.8		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50	101	103	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50	102
Darameter	Con composition and Hart		Octacosane (Diesel Surrogate)		TPH as Diesel (Silica Gel)	Octacosane (Diesel Surrogate)		Benzene	Toluene	Ethylbenzene	Total Xylenes	Methyl-t-butyl ether (MTBE)	TPH as Gasoline	Toluene - d8 (Surt)	4-Bromofluorobenzene (Surr)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Methyl-t-butyl ether (MTBE)	TPH as Gasoline	Toluene - d8 (Surr)

5/31/2005 5/31/2005

EPA 8260B EPA 8260B **EPA 8260B** 

5/31/2005 5/31/2005

EPA 8260B **EPA 8260B** 

ug/L

5/31/2005

5/31/2005 5/31/2005 5/31/2005

EPA 8260B EPA 8260B

Analysis Method

Method Reporting Limit Units

Measured Value

**EPA 8260B** 

76n 76n 76n

0.50 0.50 0.50 0.50

< 0.50 < 50 101

< 0.50</li>< 0.50</li>< 0.50</li>< 0.50</li>

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number: 44009

Date: 6/3/2005

Project Name: Retech

Project Number: AB024D

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	913	934	ng/L	M EPA 8015	6/1/05	91.3	93.4	2.35	70-130	25
TPH as Diesel	Blank	<50	1000	1000	856	830	ng/L	M EPA 8015	6/2/05	85.6	83.0	3.02	70-130	25
Benzene	44009-05	<0.50	40.0	40.0	39.9	39.7	ug/L	<b>EPA 8260B</b>	5/31/05	99.8	99.3	0.580	70-130	25
Toluene	44009-05	<0.50	40.0	40.0	39.4	38.3	ng/L	<b>EPA 8260B</b>	5/31/05	98.4	95.7	2.82	70-130	25
Tert-Butanol	44009-05	<5.0	200	200	215	206	ug/L	<b>EPA 8260B</b>	5/31/05	107	103	3.88	70-130	25
Methyl-t-Butyl Ether 44009-05	er 44009-05	<0.50	40.0	40.0	35.0	34.8	ng/L	EPA 8260B	5/31/05	97.6	87.0	0.641	70-130	25
Benzene	44009-01	<0.50	40.0	40.0	40.2	38.6	ug/L	<b>EPA 8260B</b>	5/28/05	9	9.96	3.86	70-130	25
Toluene	44009-01	<0.50	40.0	40.0	39.8	38.3	ng/L	<b>EPA 8260B</b>	5/28/05	99.4	95.7	3.77	70-130	25
Tert-Butanol	44009-01	<5.0	200	200	194	191	ng/L	<b>EPA 8260B</b>	5/28/05	97.3	95.5	1.85	70-130	25
Methyl-t-Butyl Ether 44009-01	er 44009-01	<0.50	40.0	40.0	35.2	34.8	ng/L	EPA 8260B	5/28/05	88.0	87.0	1.13	70-130	25
Benzene	44003-03	<0.50	40.0	40.0	40.3	39.8	ng/L	EPA 8260B	5/31/05	5	99.4	1.37	70-130	25
Toluene	44003-03	<0.50	40.0	40.0	40.4	39.4	ng/L	<b>EPA 8260B</b>	5/31/05	19	98.6	2. 44.	70-130	25
Tert-Butanol	44003-03	<5.0	200	200	196	196	ug/L	<b>EPA 8260B</b>	5/31/05	98.0	98.0	0.0935	70-130	25
Methyl-t-Butyl Ether 44003-03	er 44003-03	<0.50	40.0	40.0	34.0	33.8	ng/L	<b>EPA 8260B</b>	5/31/05	85.0	84.6	0.472	70-130	25

Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

Date: 6/3/2005

QC Report : Laboratory Control Sample (LCS)

Retech Project Name:

Project Number: AB024D

LCS Percent Recov. Limit	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130	70-130
LCS Percent Recov.	91.9	90.7	95.7	86.4	97.2	96.5	91.7	82.9	8.76	9.76	96.2	90.4
Date Analyzed	5/31/05	5/31/05	5/31/05	5/31/05	5/28/05	5/28/05	5/28/05	5/28/05	5/31/05	5/31/05	5/31/05	5/31/05
Analysis Method	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>	<b>EPA 8260B</b>
Units	ug/L	ng/L	ng/L	ng/L	ug/L	ug/L	ng/L	ng/L	ng/L	ug/L	ng/L	ng/L
Spike Level	40.0	40.0	200	40.0	40.0	40.0	200	40.0	40.0	40.0	200	40.0
Parameter	Benzene	Toluene	Tert-Butanol	Methyl-t-Butyl Ether	Benzene	Toluene	Tert-Butanol	Methyl-t-Butyl Ether	Benzene	Toluene	Tert-Butanol	Methyl-t-Butyl Ether

Approved By:

KIFF ANALYTICAL, LLC



June 06, 2005

Joel Kiff Kiff Analytical 2795 2nd Street, Suite 300 Davis, CA 95616-6593

Subject:

Calscience Work Order No.:

05-05-1809

**Client Reference:** 

Retech

### Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/27/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental

Laboratories, Inc.

Stephen Nowak

**Project Manager** 



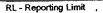
### **Analytical Report**

Kiff Analytical 2795 2nd Street, Suite 300 Davis, CA 95616-6593 Date Received: Work Order No: Preparation: Method: Units: 05/27/05 05-05-1809 EPA 3510B EPA 8270C ug/L

Project: Retech

Page 1 of 2

Client Sample Number			1	Sample lumber	Date Collected	Matrix	Date Prepared	Date Analyzed	QC B	atch ID
MW-1			05-05-180		05/25/05	Aqueous	06/01/05	06/03/05	05060	1L10
	Danuk	RL	DF	Qual	Parameter		Resul	RL	DF	Qua
Parameter	Result			- COOM	4-Nitrophenol		ND	10	1	
l-Nitrosodimethylamine	ND	10	1		Dibenzofuran		ND	10	1	
kniline	ND	10	1		2.4-Dinitrotolus	ma	ND	10	1	
Phenoi	ND	10	1		2,4-Dinitrotolus		ND	10	1	
3is(2-Chloroethyl) Ether	ND	25	1		Diethyl Phthak		ND	10	1	
-Chlorophenol	ND	10	1		•		ND	10	i	
,3-Dichlorobenzene	ND	10	1		4-Chloropheny	H I ROUNT LUICA	ND	10	1	
,4-Dichlorobenzene	ND	10	1		Fluorene		ND ND	10	1	
Benzyl Alcohol	ND	10	1		4-Nitroaniline		ND ND	10	1	
,2-Dichlorobenzene	ND	10	1		Azobenzene	lathuinhanni	ND ND	50	1	
-Methylphenol	ND	10	1		4,6-Dinitro-2-N		ND ND	10	1	
3is(2-Chloroisopropyl) Ether	ND	10	1		N-Nitrosodiphe	-	ND ND	10	1	
V4-Methylphenol	ND	10	1		4-Bromopheny	•	ND ND	10	1	
I-Nitroso-di-n-propylamine	ND	10	1		Hexachlorober		ND ND	10	4	
lexachloroethane	ND	10	1		Pentachloroph	enor	ND ND	10		
litrobenzene	ND	25	1		Phenanthrene		ND ND	10	1	
sophorone	ND	10	1		Anthracene	. 1.4.		10		
?-Nitrophenol	ND	10	1		Di-n-Butyl Pht	naiate	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Fluoranthene		ND		•	
Benzoic Acid	ND	50	1		Benzidine		ND	50	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Pyrene		ND	10		
2,4-Dichlorophenol	ND	10	1		Pyridine		ND	10	1	
Vaphthalene	ND	10	1		Butyl Benzyl P		ND	10	1	
l-Chloroaniline	ND -	10	1		3,3'-Dichlorobe		ND	25	1	
lexachioro-1,3-Butadiene	ND	10	1		Benzo (a) Anti		ND	10	1	
I-Chioro-3-Methylphenol	ND	10	1		Bis (2-Ethylhex	yl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene		ND	10	1	
lexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Pht		ND	10	1	
2.4.6-Trichlorophenol	ND	10	1		Benzo (k) Fluo	ranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluo	ranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyre	ene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) F	erylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-	c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) A		ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnapht	halene	ND	10	1	
Acenaphthene	ND	10	1		1,2,4-Trichlord		ND	10	1	
2,4-Dinitrophenol	ND	50	1		90					104101111111
Surrogates:	REC (%)	Control Limits	L	Qual	Surrogates:		REC (S	Limits		Qual
2-Fluorophenol	40	7-121			Phenol-d6		23	1-127		
Nitrobenzene-d5	61	50-146	ı		2-Fluorobipher	nyl	72	42-138		
Nitrobenzene-ab 2,4,6-Tribromophenol	76	41-137			p-Terphenyl-d	•	73	47-173		



DF - Dilution Factor ,

Qual - Qualifiers





### **Analytical Report**

Kiff Analytical 2795 2nd Street, Suite 300 Davis, CA 95616-6593 Date Received:
Work Order No:
Preparation:
Method:
Units:

05/27/05 05-05-1809 EPA 3510B EPA 8270C ug/L

Project: Retech

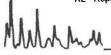
Page 2 of 2

Client Sample Number				ab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	1000	atch ID
Method Blank			095-01-	003-1,691	N/A	Aqueous	06/01/05	06/02/05	05060	1L10
Parameter	Result	RL	DE	Qual	Parameter		Resu	ut RL	DE	Qual
N-Nitrosodimethylamine	ND	10	1		4-Nitrophenol		ND	10	1	
•	ND	10	1		Dibenzofuran		ND	10	1	
Aniline Phénol	ND	10	1		2,4-Dinitrotolu	ene	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,6-Dinitrotolu	ene	ND	10	1	
35(2-Chlorophenol	ND	10	1		Diethyl Phthali	ate	ND	10	1	
2-Chiorophenoi 1,3-Dichlorobenzene	ND	10	1		4-Chlorophem	/I-Phenyl Ether	ND	10	1	
- • -	ND	10	1		Fluorene		ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Nitroaniline		ND	10	1	
Benzyl Alcohol	ND	10	1		Azobenzene		ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4,6-Dinitro-2-A		ND	50	1	
2-Methylphenol	ND	10	1		N-Nitrosodiph	enylamine	ND	10	1	
Bis (2-Chloroisopropyl) Ether	ND	10	1			/I-Phenyl Ether	ND	10	1	
3/4-Methylphenol	ND	10	1		Hexachlorobe	nzene	ND	10	1	
N-Nitroso-di-n-propylamine Hexachloroethane	ND	10	1		Pentachloroph		ND	10	1	
Hexactionoeulaire Nitrobenzene	ND	25	1		Phenanthrene		ND	10	1	
	ND	10	1		Anthracene		ND	10	1	
Isophorone	ND	10	1		Di-n-Butyl Pht	halate	ND	10	1	
2-Nitrophenol	ND	10	1		Fluoranthene		ND	10	1	
2,4-Dimethylphenol	ND	50	1		Benzidine		ND	50	1	
Benzoic Acid	ND	10	4		Pyrene		ND	10	1	
Bis (2-Chloroethoxy) Methane	ND	10	- 1		Pyridine		ND	10	1	
2,4-Dichlorophenol	ND	10	1		Butyl Benzyl F	hthalate	ND	10	1	
Naphthalene	ND	10	1		3,3'-Dichlorob	enzidine	ND	25	1	
4-Chloroaniline	ND	10	1		Benzo (a) Ant	hracene	ND	10	1	
Hexachloro-1,3-Butadiene	ND	10	1		Bis(2-Ethylhe	cyl) Phthalate	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Chrysene		ND	10	1	
2-Methylnaphthalene	ND UN	25	1		Di-n-Octyl Phi	thalate	ND	10	1	
Hexachlorocyclopentadiene	ND	10	1		Benzo (k) Flux	oranthene	ND	10	1	
2,4,6-Trichlorophenol	ND ND	10	1		Benzo (b) Flu	oranthene	ND	10	1	
2,4,5-Trichlorophenol	ND ND	10	1		Benzo (a) Pyr		ND	10	1	
2-Chloronaphthalene	ND ND	10	1		Benzo (g,h,i)		ND	10	1	
2-Nitroaniline	ND	10	1		Indeno (1,2,3		ND	10	1	
Dimethyl Phthalate	ND ND	10	1		Dibenz (a,h)		ND	10	1	
Acenaphthylene	ND	10	1		1-Methylnaph		ND	- 10	1	
3-Nitroaniline	ND	10	1		1,2,4-Trichlor		ND	10	1	
Acenaphthene	ND ND	50	i							
2,4-Dinitrophenol	REC (%)	Control		Qual	Surrogates:		REC			Qual
Surrogates:	NEO (70)	<u>Limits</u>		, Marrier			27	<u>Limits</u> 1-127	<u> </u>	
2-Fluorophenol	45	7-121			Phenol-d6	and d	67	42-138	R	
Nitrobenzene-d5	60	50-146			2-Fluorobiphe		72	47-173		
2,4,6-Tribromophenol	75	41-137			p-Terphenyl-o	114	12	41-113	,	

RL - Reporting Limit ,

DF - Dilution Factor ,

Qual - Qualifiers





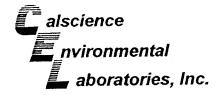
### **Quality Control - LCS/LCS Duplicate**

Kiff Analytical 2795 2nd Street, Suite 300 Davis, CA 95616-6593 Date Received: Work Order No: Preparation: Method: N/A 05-05-1809 EPA 3510B EPA 8270C

Project: Retech

Quality Control Sample ID	Matrix	Inst	rument	Date Prepa			ate yzed	LCS/LCSD Bat Number	ch
095-01-003-1,691	Aqueous	GC	ms J	06/01/	05	06/0	2/05	050601L10	
Parameter	LCS %	REC	LCSD %	<u>REC</u>	%REC	CL	RPD	RPD CL	Qualifiers
	37	9)	37		4-1	42	0	0-24	
Phenol	78		82		53-1	113	6	0-17	
2-Chlorophenol	80		83		50-	122	3	0-19	
1,4-Dichlorobenzene	71		76		56-	146	6	0-22	
N-Nitroso-di-n-propylamine	75		78		55-	121	4	0-18	
4-Chioro-3-Methylphenol	80		83		55-	139	4	0-17	
Acenaphthene	37		38		1-1	45	3	0-29	
4-Nitrophenol	55		59		41-	161	6	0-22	
2,4-Dinitrotoluene	100		108		34-	130	7	0-23	
Pentachlorophenol	86		90		38-	170	5	0-27	
Pyrene 1,2,4-Trichlorobenzene	79		82		49-	121	4	0-19	

RPD-Rela



### **Glossary of Terms and Qualifiers**

Work Order Number: 05-05-1809

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
Α	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
С	Analyte presence was not confirmed on primary column.
Ε	Concentration exceeds the calibration range.
Н	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

L-VVIV GIUMAS DUIXAS DIXIS DIX
Received by:

Page 7 of 8

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KIFF	Project Contact (Hardcopy or PDF to):	Joel Kiff	Company/Address: Kiff Analytical, LLC		Project Number:	Q	Project Name:	Retech	Project Address:	Sample	Designation	MW-3	MW-1								Relinquished by	Relinquished by:	Relinquished by:	

Forms/coc 121001.fh9 0 90 する 6 0 For Lab Use Only 0 0 Chaltyof-Custody Record and Analysis Request \*\* 1/3 ST/M 84/M 45/M SI TAT (2.965\1247) beeJ TOTAL (X) WET. (X) Lab No. Letoog Volatile Halocarbons (EPA 8260B) EPA 82608 (Full List) Lead Scay. (1,2 DCA & 1,2 EDB - 8260B) Analysis Request 7 Oxygenates (8260B) 5 Oxygenates (8260B) Cxygenates/TPH Gas/BTEX (8260B) 5 Oxygenates/TPH Gas/BTEX (82508) Remarks; Them. For Live Coolani present Y/N TPH Gas/BTEX/MTBE (8260B) TPH 8s Motor Oil (M8015) (Grosm) lessig sa Hq1 BLEX/TPH Gas/MTBE (8021B/M8015) BTEX (8021B) STAN BASA Time 142 Matrix TIOS **MATER** Received by Laboratory Preservative HONE Ascommended but not mandatory to comp ICE Received by: HOO3 Received by: 2795 2nd Street, Suite 300 HCI Lab: 530,297,4800 Fax: 530.297.4808 **Davis, CA 95616** 052601 123 C Time DH. SLEEVE AOV Im 04 Date 1315 Sampling Date Distribution: White - Lab, Pirix - Originator ANALYTICAL LLC Sample Designation Relinquished by: Relinquished by: ۴



**WORK ORDER #:** 

05-09-11809

Cooler \_\_\_\_ of \_\_\_\_

### **SAMPLE RECEIPT FORM**

CLIENT: KIFF	DATE: 05/27/05
TEMPERATURE - SAMPLES RECEIVED BY:	£:
CALSCIENCE COURIER:  Chilled, cooler with temperature blank provided.  Chilled, cooler without temperature blank.  Chilled and placed in cooler with wet ice.  Ambient and placed in cooler with wet ice.  Ambient temperature.  ° C Temperature blank.	LABORATORY (Other than Calscience Courier):  3-4 °C Temperature blank.  °C IR thermometer.  Ambient temperature.
CUSTODY SEAL INTACT:	
Sample(s): Cooler: No (Not Intact)	: Not Applicable (N/A): Initial:
SAMPLE CONDITION:	
Chain-Of-Custody document(s) received with samples	
COMMENTS:	